ATTACHMENT II

LOUISIANA TECHNOLOGY INNOVATION FUND - PROGRESS REPORT

I DEPARTMENT/AGENCY

Louisiana State University and A&M College

II PROJECT TITLE

A Prototype High-Performance Computing System for the State of Louisiana

III PROJECT LEADER

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IV DESCRIPTION OF THE PROJECT

LSU requested $989,383 from the Technology Innovation Fund for the acquisition of computing hardware to establish a prototype high-performance computing system in support of numeric and/or data-intensive research, educational and governmental applications within the state of Louisiana. The objective is to demonstrate the viability of and the need for such a state-of-the-art tool in Louisiana. While creating a new and distinct service, the request leverages and builds on LSU=s current investment in hardware, software and people and utilizes standard OTM LaNet connectivity anticipating the future expansion to Asynchronous Transfer Mode (ATM) technology.

V PROJECT STATUS

1. Brief Summary
The equipment bid opened March 3, 1999. The bid was accepted and equipment delivery was completed March 19, 1999. Needed personnel were hired in July and hardware and software installation are in progress for implementation early this fall.

2. Accomplishments
Site preparation was completed February 26, 1999.

Equipment specifications were completed and bid. The bid opened March 3, 1999.
The following equipment was ordered and received by March 19, 1999.

Qty.	Description
01	RS/6000 SP Frame Model 9076-550
01	SP Switch, Feature 4011

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15	Switch Adapters2, Feature 4023
15	PCI SSA Disk Adapters, Feature 6215
15	ATM Turboways 155 PCI Adapters, Feature 2988
15	9.1 GB Ultra SCSI Disk, Feature 2909
30	Memory Expansion, Feature 4098
60	Memory 256MB (2x128MB) DIMMS, Feature 4110
14	Power3 Thin Single Node, Feature 2052
01	Power3 Wide Single Node, Feature 2053
30	Power3 1-way Processor, Feature 4342
01	SSA Disk Subsystem, Feature 7133-D40
01	Power Supply, Feature 8022
01	Raven Black Drawer Cover, Feature 8031
16	18.2GB Advanced Disk Module, Feature 8218
04	10 Meter SSA Cable, Feature 8810

An Asynchronous Adapter was ordered to connect the new nodes to the Control Workstation. The adapter was received April 15, 1999.
01   IBM Asynchronous Adapter left out of the bid

The following network equipment was ordered and delivered by July 14, 1999:
02   3Com Switch and connecting Category 5 wiring

Support contracts were extended effective July 1 to incorporate support services for the new devices and the parallel software environment as specified in the proposal.

3. Problems Encountered/Action Taken or Planned
In late spring we advertized a position for the High Performance Computing initiative. We were able to recruit two Application Consultants with experience in scientific computing to assist us with the deployment of the hardware and software components of the parallel research cluster. Two positions were funded and filled one on July 1 and the other July 12, 1999.

4. Major Milestones (Original vs. Current Estimate)
Site preparation was completed on schedule.
Equipment was acquired and delivered on schedule.
Due to personnel shortage, the software and hardware implementation was delayed by three months. Two positions were funded and personnel came on board July 1 and 12. Software implementation is on track for implementation by early October.

VI COST VS. BUDGET

Category	**Budgeted**	**Actual**	**Projected Surplus**
1. Equipment	$959,599	$890,583	$0
2. Software	$29,784	$ 21,494	$0

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3. Telecommunications $0 $0 $0
   Telecommunications costs are not charged to this project.

4. Prof./Contract Services $0 $0 $0
   Professional Services are not charged to this project.

5. Other Costs $0 $0 $0
   None.

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   Total Project Cost $989,383 $912,077 $0

VII ITEMIZED EXPENSES AND FINANCIAL OBLIGATIONS INCURRED DURING THIS REPORTING PERIOD

    IBM SP Expansion for Parallel processing $878,050
    IBM Asynchronous Adapter   978
    IBM Disk Drives (5) - not received yet   5,848
    3Com Switch and connecting Category 5 wiring   5,707
    IBM Support contract extensions   21,494
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                                 Total   **$912,077**

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